

Dr. Kathleen Coleman-Walter joined the U.S. Army Research Laboratory (ARL) in 2020, where she focuses on ultra-low SWaP electric- and magnetic-field sensors, as well as self-power multi-modal ferroelectric based sensors utilizing their piezoelectric and pyroelectric properties. This work includes novel material systems, advanced packaging techniques, ultra-low power circuit designs, and integration with larger power systems in heterogenous sensor network. Prior to working at ARL, Dr. Coleman received her Ph.D. on the Influences of Stress on the Performance of Lead Zirconate Titanate, from Pennsylvania State University where she gained the fabrication, characterization and testing techniques for working with ferroelectric, pyroelectric, and piezoelectric thin films.